Date: De roser 4. 2004

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applic, No.

10/727.802 Heiko Schwarz, et al. Confirmation No: 6860

Applicant Filed

December 4, 2003

Art Unit

2613 Title

Method and Arrangement for Coding Transform Coefficients in Picture and/or Video Coders and Decoders and a Corresponding

Computer Program and a Corresponding Computer-Readable

Storage Medium

S&ZFH030507 Docket No. Customer No. : 24131

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(C)(2)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. 1.98 copies of the following patents and/or publications are submitted herewith:

Ref 1.01: Title: Draft ITU-T Recommendation and Final Draft International Standard Joint Video Specification (ITU-T Rec. H.264I ISO/IEC 14496-10 AVC). From: Joint Video Team (JVT) of ISO/IEC MPEG & ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 and ITU-T SG16 Q.6). Pages: 1-250.

Ref 1.02: Title: Overview of the H.264/AVC Video Coding Standard. Author: Thomas Wiegand, Gary J. Sullivan, Senior Member, IEEE, Gisele Biontegaard, and Ajay Luthra. Senior Member, IEEE. Pages: 560-576.

Ref 1.03: Title: Information Technology-Generic Coding Moving Pictures and Associated Audio Information: Video. From: International Standard 13818-2 Recommendation ITU-T H.26. Pages: 1-224.

Ref 1.04: Title: Draft Text of Recommendation H.263 Version 2 ("H.263+") for Decision.

From: International Telecommunication Union. Pages: 1-143.

Ref 1.05: Title: Information Technology-Coding of Audio Visual Objects-Part 2: Visual.

From: International Organization for Standardization Organization International

Normalization ISO/IEC JTC1/SC29/WG 11 Coding of Moving Picture and Audio.

Pages: 1-526.

Ref 1.06: Title: DCT Coding for Motion Video Storage Using Adaptive Arithmetic Coding. Author: C.A. Gonzalez, L. Allman, T. McCarthy, P. Wendt. Pages: 145-154. Ref 1.07: Title: Adaptive Codes for H.26L. From: ITU -Telecommunications Standardization Sector. Pages: 1-7

Ref 1.08: Title: Further Results for CABAC Entropy Coding Scheme. From: ITU - Telecommunications Standardization Sector. Pages: 1-8.

Ref 1.09: Title: Improved CABAC. From: Joint Video Team (JVT) of ISO/IEC MPEG & ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 and ITU-T SG16 Q.6). Pages: 1-6.

Ref 1.10: **Title:** New Results in Improved CABAC. **From:** Joint Video Team (JVT) of ISO/IEC MPEG & ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 and ITU-T SG16 Q.6). **Pages: 1-12.** 

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Ref 1.13: Title: CABAC and Slices. From: Joint Video Team (JVT) of ISO/IEC MPEG & ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 and ITU-T SG16 Q.6). Pages: 1-17.

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Ref 1.15: **Title**: Proposed Cleanup Changes for CABAC. **From**: Joint Video Team (JVT) of ISO/IEC MPEG & ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 and ITU-T SG16 Q.6). **Pages: 1-7**.

Ref 1.16: Title: CABAC Cleanup and Complexity Reduction. From: Joint Video Team (JVT) of ISO/IEC MPEG & ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 and ITU-T SG16 Q.6). Pages: 1-20.

Ref 1.17: **Title:** Final CABAC Cleanup. **From:** Joint Video Team (JVT) of ISO/IEC MPEG & ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 and ITU-T SG16 Q.6). **Pages: 1-24.** 

Ref 1.18: Title: Very Low Bit-Rate Video Coding Using Wavelet-Based Techniques.

Author: Detlev Marpe and Hans L. Cycon. Pages: 85-94

Ref 1.19: **Title:** Wavelet-Based Very Low Bit-Rate Video Coding Using Image Warping and Overlapped Block Motion Compensation. **Author:** G. Heising, D. Marpe, H.L.

Cycon and A.P. Petukhov. Pages: 93-101.

Ref 1.20: Title: Motion-Compensated 3-D Subband Coding of Video. Author: Seung-Jong Choi and John W. Woods, Fellow IEEE. Pages: 155-167.

Ref 1.21: **Title:** A New Fast and Efficient Image Codec Based on Set Partitioning in Hierarachial Trees\*. **Author:** Amir Said (Faculty of Electrical Engineering) and William A. Pearlman (Department of Electrical, Computer, and Systems Engineering Renesselar Polytechnic Institute). **Pages: 1-15.** 

Ref 1.22: Title: Efficient Pre-Coding Techniques for Wavelet-Based Image Compression. Author: Detlev Marpe and Hans L. Cycon. Pages: 45-51.

Ref 1.23: **Title:** Universal Modeling and Coding. **Author:** Jorma Rissanen and Glen G. Langdon, Jr., Senior Member, IEEE. **Pages: 12-23.** 

Ref 1.24: Title: Universal Coding Information, Prediction, and Estimation. Author: Jorma Rissanen. Pages: 629-636.

Ref 1.27: **Title:** Applications of Universal Context Modeling to Lossless Compression of Grey-Scale Images. **Author:** Marcelo J. Weinberger. Member. IEEE. Jorma J.

Rissanen, Senior Member, IEEE, and Ronald B. Arps. Pages: 575-586.

Ref 1.29: Title: A Compression Method for Clustered Bit-Vectors. Author: Jukka Teuhola (Department of Computer Science, University of Turka). Application: XP-001000934.

Ref 1.30: **Title**: Optimal Source Codes for Geometrically Distributed Integer Alphabets. **Author**: Robert G. Gallager, fellow, IEEE, David C. Vanvoorhis, member, IEEE. **Pages**: 228-230.

Ref 1.31: Title: A Context Modeling Algorithm and its Application in Video Compression. Author: Marta Mrak, Detley Marpe, and Thomas Wiegand.

Ref 1.32: **Title:** An Overview of the Basic Principles of the Q-Coder Adaptive Binary Arithmetic Coder. **Author:** W.B. Pennebaker, J.L. Mitchell, G.G. Langdon, Jr., and R.B. Arps. **Pages:** 717-726.

Ref 1.33: Title: A Muliplication-Free Multialphabet Arithmetic Code. Author: Jorma Rissanen and K.M. Mohiuddin. Pages: 93-98.

Ref 1.34: Title: Practical Implementations of Arithmetic Code. Author: Paul G. Howard and Jeffrey Scott Vitter. Pages: 1-30.

Ref 1.35: Title: Sample Data Coding. From: Chapter 12. Pages: 474-484.

Ref 1.37: **Title:** Arithmetic Code Revisited. **Author:** Alistair Moffat (The University of Melbourne), Radford M. Neal (University of Toronto), and Ian H. Witten (the University of Waikato). **Pages:** 257-294.

Ref 1.38: Title: Rate-Constrained Coder Control and Comparison of Video Coding Standards. Author: IEEE Transactions on Circuits and Systems for Video Technology, Vol. 13, No. 7, July 2003. Thomas Wiegand, Heiko Schwarz, Anthony Joch, Faouzi Kossentini, Senior Members, IEEE, and Gary J. Sullivan, Senior Member, IEEE. Pages: 689-703.

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Ref 2.03x: Title: Line Transmission of Non-Telephone Signals / Video Codec for Audiovisual Services AT p x 64 kbit/s. From: International Telecommunication Union H.261. Pages: 1-25.

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Miska M. Hannuksela, and Thomas Wiegand. Pages: 657-673.

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Ref 2.18: Title: Adaptive Deblocking Filter. Author: Peter List, Anthony Joch, Jani Lainema, Gisle Bjontegaard, and Marta Karczewicz. Pages: 614-619.

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Ref B: Title: A Highly Efficient Multiplication-Free Binary Arithmetic Coder and its Application in Video Coding. **Author:** Detlev Marpe and Thomas Wiegand. **Pages: 1-4**.

Ref C: Title: Proposed Editorial Changes and Cleanup of CABAC. From: Joint Video Team (JVT) of ISO/IEC MPEG & ITU-T VCEG (ISO.IEC JTC1/SC29/WG11 and ITU-T SG16 Q.6). Pages: 1-10.

Ref D: Title: Study of Final Committee Draft of Joint Video Specification (ITU-T Rec. H.264 I ISO/IEC 14496-10 AVC). From: Joint Video Team (JVT) of ISO/IEC MPEG & ITU-T VCEG (ISO.IEC JTC1/SC29/WG11 and ITU-T SG16 Q.6). Pages: 1-239. Ref E: Title: Study of Final Committee Draft and Joint Video Specification (ITU-T Rec. H.264 I ISO/IEC 14496-10 AVC). From: Joint Video Team (JVT) of ISO/IEC MPEG & ITU-T VCEG (ISO.IEC JTC1/SC29/WG11 and ITU-T SG16 Q.6). Pages: 1-227.

Ref F: Title: CABAC and Slices. From: Joint Video Team (JVT) of ISO/IEC MPEG & ITU-T VCEG (ISO.IEC JTC1/SC29/WG11 and ITU-T SG16 Q.6). Pages: 1-17.

In accordance with 37 C.F.R. 1.97(e) the undersigned herewith states that each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

If no translation of pertinent portions of any foreign language patents or publications mentioned above is included with the aforementioned copies of those applications, patents and/or publications, it is because no existing translation is readily available to the applicant. As per the Notice in 1273 OG 55 (August 5, 2003) no copies of any above-mentioned U.S. patents and U.S. patent application publications are submitted for any application filed after June 30, 2003.

In accordance with 37 C.F.R. 1.97 (c) (2), consideration of this Information Disclosure Statement is requested.

Enclosed is the fee in the amount of \$180.00

It is believed that the enclosed prior art is less pertinent than the prior art previously submitted and cited by the Examiner. Kindly place the references in the Patent Office file wrapper.

Respectfully submitted.

Date: October 4, 2004

Lerner And Greenberg, P.A. Post Office Box 2480 Hollywood, FL 33022-2480 Tel: (954) 925-1100

Fax: (954) 925-1100

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## FORM PTO-1449 (SUBSTITUTE)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

> INFORMATION DISCLOSURE STATEMENT BY APPLICANT (37 CFR 1.98(b))

Attorney Docket No.: S&ZFH030507

Applic. No. 10/727,802

Applicant

Heiko Schwarz, et al.

Filing Date December 4, 2003 Group Art Unit 2613

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	Ref 1.01: Title: Draft ITU-T Recommendation and Final Draft
/TV/	International Standard Joint Video Specification (ITU-T Rec. H.264I
	ISO/IEC 14496-10 AVC). From: Joint Video Team (JVT) of ISO/IEC
	MPEG & ITU-T VCEG (ISO/IEC JTC1/SC29/WG11 and ITU-T SG16
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Ref 1.02: Title: Overview of the H.264/AVC Video Coding S	
	Author: Thomas Wiegand, Gary J. Sullivan, Senior Member, IEEE,
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/TV/	560-576. No Date
	Ref 1.03: Title: Information Technology-Generic Coding Moving
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	526. No Date
	Ref 1.06: Title: DCT Coding for Motion Video Storage Using Adaptive
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/TV/	Telecommunications Standardization Sector. Pages: 1-7 No Date
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		Ref 1.10: Title: New Results in Improved CABAC. From: Joint Video
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		JTC1/SC29/WG11 and ITU-T SG16 Q.6). Pages: 1-11.
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		Institute). Pages: 1-15. No Date  Ref 1.22: Title: Efficient Pre-Coding Techniques for Wavelet-Based
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	lan H. Witten (zthe University of Waikato). Pages: 257-294. No Date
	Ref 1.38: Title: Rate-Constrained Coder Control and Comparison of
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EXAMINER	/Tung Vo/ DATE CONSIDERED
	04/19/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (SUBSTITUTE)  U.S. DEPARTMENT OF COMMERCE	Attorney Docket No.: Applic. No. S&ZFH030507 10/727,802
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